

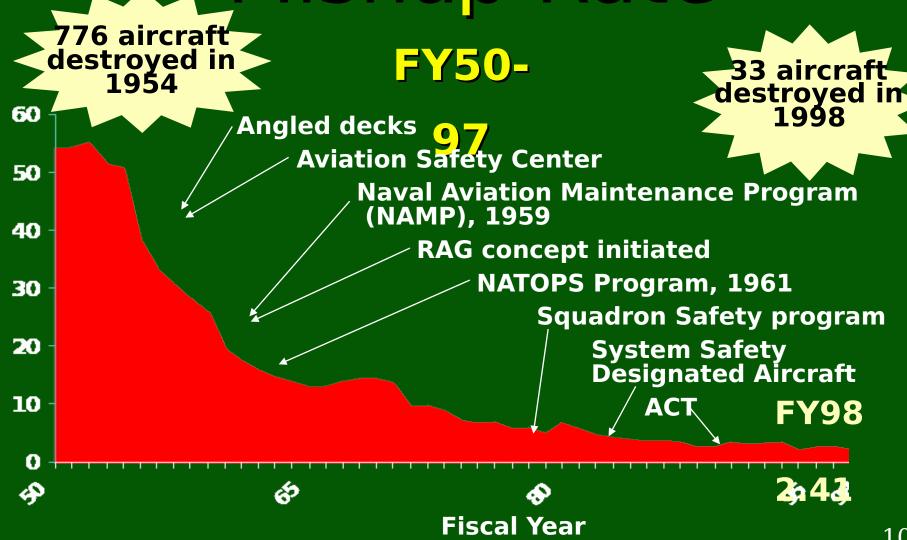
"Avoid the distractions of debates on political correctness and focus on the soldiers' mission, one that remains fixed, determined, inviolable. It is to win our wars."

General Douglas MacArthur April, 1962

"We're out of the do more with less business. We can do less with less or we can do more with more, but we will no longer do more with less."

Johnson College Admiral Jay Naval War Iune,

Naval Aviation Mishap Rate



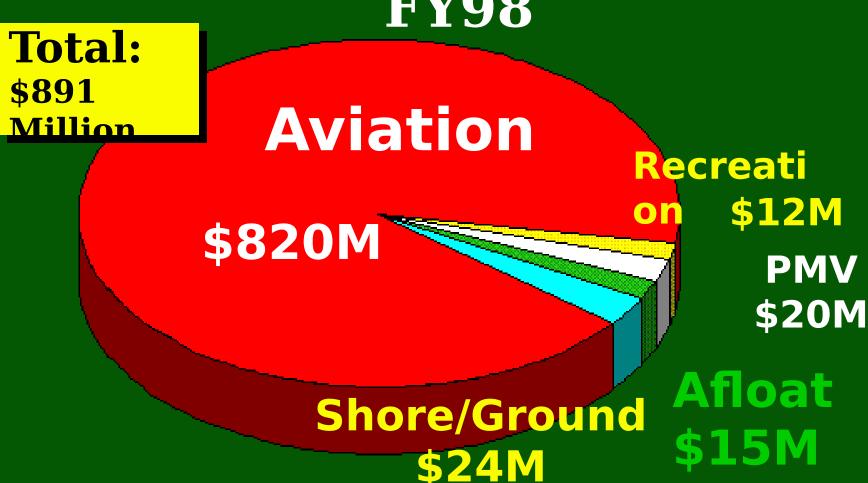
Navy & Marine Corps Class A Flight Mishaps

5 year trends indicate a plateau - but FY 98 rate highest since FY 93



Cost of Mishaps

Navy and Marine Corps, FY98

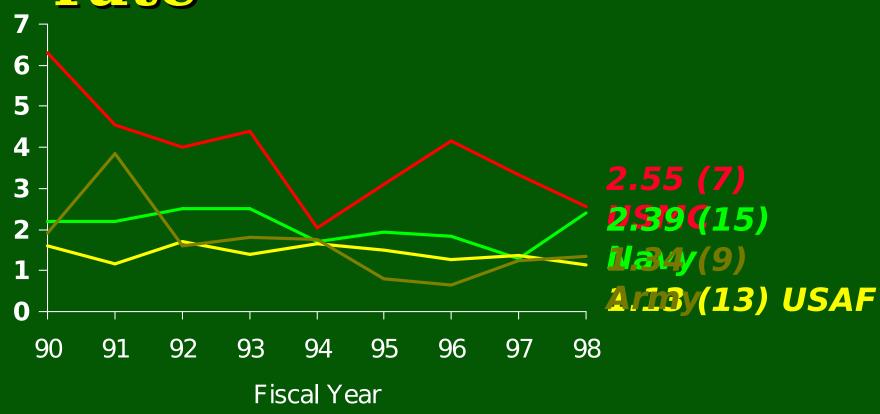


Cost of Mishaps Marine Corps, FY98



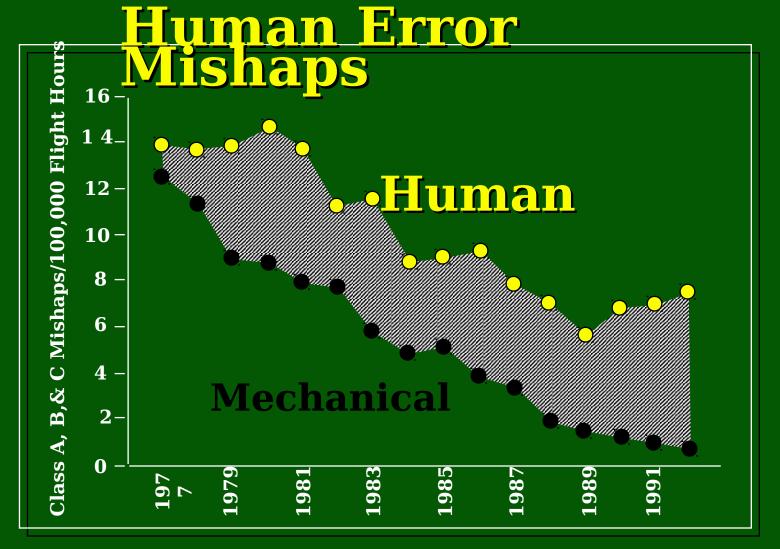
All Services, Class A Flight Mishap

Rates have highest rate

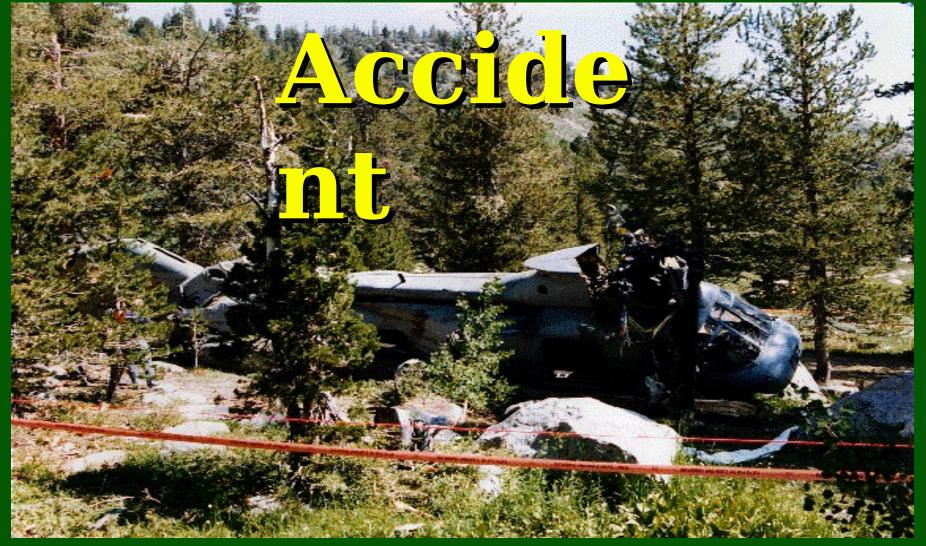


Human Error 4 of every 5 Navy Service Class A flight mishaps involve human error

No Steady Decrease in



All Navy-Marine Corps Mishaps, CY 1977-



The unplanned result of a behavior that is likely part of

1005A

Organizational Culture "The way we do things

- here"
 Fundamental building
 blocks
- Group values and standards
- Medium for growth
 Shapedibyleadership



Desired Cultural • Accountability

- Integrity
- Focus on standards
- Continuous and open communication
- Intolerance for noncompliance
- **Consistent decisions**



1052A

Risk Management

- > A Decision Making Tool
- > Increases Ability to Make

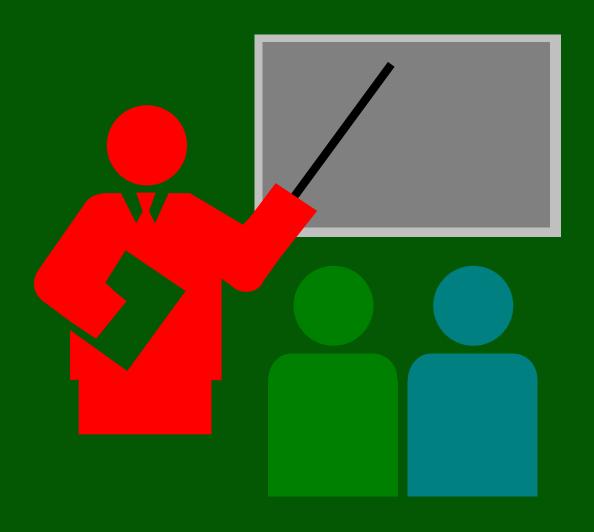
Informed Decisions

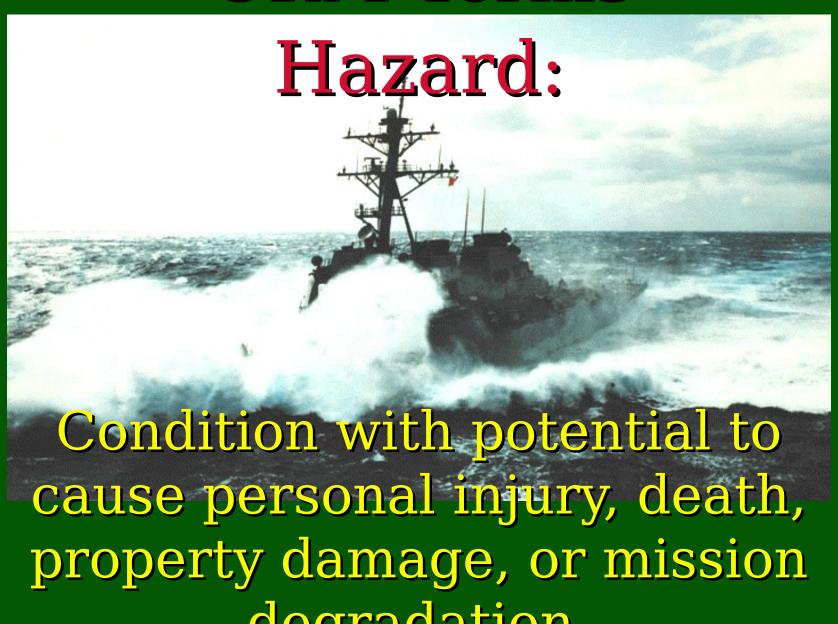
> Reduces Risks to Acceptable Levels

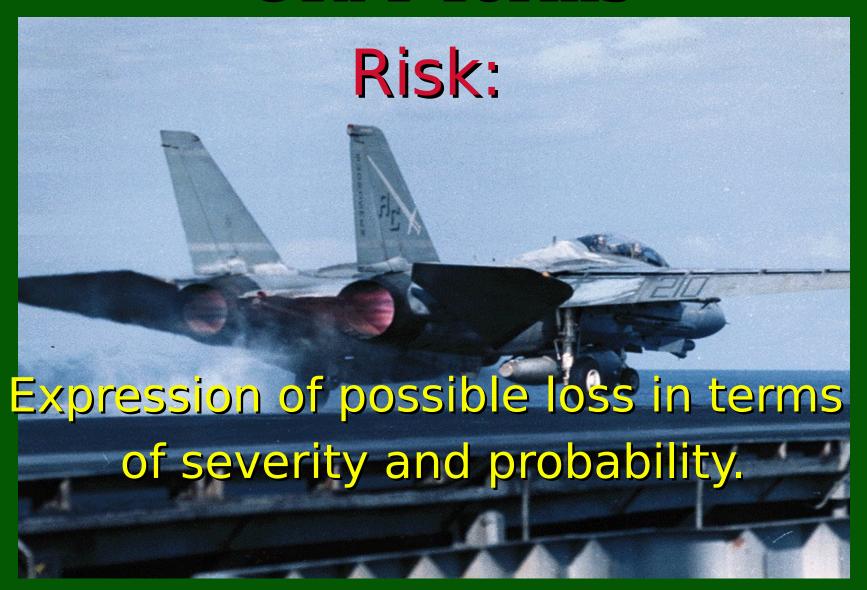
Operational Risk Management

Goali

To optimize operational capability and readiness by managing risk to accomplish the mission with minimal loss.







ORM Terms Severity:

The worst consequence withith can occur as a result of a hazard.

Probability:

telihood that a hazard will result in mishap or loss.

Hazard

Risk

Bad Weather

High Probability Flight Ops Cnx

Flock of Birds

Moderate Chance of Engine FOD

Walking on top of Slippery AC

Some Chance of Fall Producing Severe Injury

Risk Assessment:

The process of detecting hazards and assessing associated risks.

Control:

A method for reducing risk for an identified hazard by lowering the probability of occurre

propability of occurred decreasing potential second or both.

Operational Risk Management

The process of dealing with risk associated with military operations, which includes risk assessment, risk decision making, and implementation of effective risk controls.

Operational Risk Management Process

- 1. Identify Hazards
- 2. Assess Hazards
- 3. Make Risk Decisions
- 4. Implement Controls
- 5. Supervise

Causes of Risk

- * Change The "Mother" of Risk
 - * Resource Constraints
 - * New Technology
- * Complexity
- * Stress

Risk (Cont.)

- * Human Nature
- * High Energy Levels
- * Societal Constraints
- * Environmental Influences
- * Speed/Tempo of Operation

Four ORM Principles

- 1. Accept risk when benefits outweigh the cost.
- 2. Accept no unnecessary risk.
- 3. Anticipate and manage risk by planning.
- 4. Make risk decisions at the right level.

ORM vs. Traditional Approach

Systematic

Random, Individual-I

Proactive

Reactive

Integrates All Types of Risk Into Plan

Safety As After-thought Or Plan is Done

Common

Non-standard

Process/Terms

Conscious Decision "Can Do" Regardless of Ris Based on Risk vs. Benefit

The Benefits of ORN

> Reduction in Mishaps

> Improved
Missiontiveness

Operational Risk Management

Levels of Application

- 1. Time-critical On the run consideration of the 5 Step
- 2. Deliberate Application of to complete 5-Step Process
- 3. In-depth Complete 5-Step Process with Detailed Analy

ORM Implementation Concept

- Naval Aviation Leads The Way!
- Leverage the Army's Investment in ORM
- PHASE I: JUMP START for Operational Units
- PHASE II: CNATRA/FRS/FWS Pipeline Training
- PHASE III: CNET Pipeline Training

ORM - Implementation Plan

- PHASE I: Jump Start for Operation
 - Naval Safety Center "Train the Trainer" Course
 - Senior Leader Training
 - Squadron Workshop Training

ORM - Implementation Plan

- PHASE II: Long Term CNATRA FRS Pipeline Training
 - VT/HT Flight Instructor (user/adv)
 - Student API (indoc) and VT/HT (user)
 - FRS (user)
 - FWS/Type Wing/MAW/MAG (adv)
 - CO/XO ASC course (leader)
 - Follow-on Train the Trainer School (adv/TtT)

Why do we need ORM

- USMC & All other services decreasing in size
- Number of missions increasing
- Can not afford to sustain the losses we historically suffer during training

ORM IMPLEMENTATION STATUS

DOCTRINE: Naval doctrinal Pub 1,3 &

5 FMFM - 1

POLICY: MCO P3500.27/OPNAVINST

3500.39

TRAINING:

- Naval Safety Center
- Naval Post Graduate School

ORM UPDATE

- 5 "Train the Trainers" Courses @ NSC
- 39 USMC Aviators attended TTT Course
- 80% of USMC Squadrons

ORM: WHERE ARE THE TRAINERS?

• 1st MAW: 5

• 2nd MAW: 12

• 3rd MAW: 10

• 4th MAW: 8

• HMX-1, MAWTS-1, V-22 Test & Eval, SD

Some trainers have already PCSed

SQUADRON ASSISTANCE RISK ASSESSMENT "SARA"

- •MAGs 11, 13 & 14 have SARA prototype
- All MAWs to receive SARA
- Requires hardware & training

Your Next Mishap . . . Who, Not



- Self-discipline
- Leadership
- Training
- Standards
- Support

"Life is tough, but it's tougher if you're stupid"

Sergeant John M.
Stryker, USMC, in
"The Sands of
Iwo Jima"